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## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method for predicting whether an on-line shopper will be 2 converted into becoming a purchaser of an item based on sales promotions offered by an on-line 3 vendor, comprising the steps of: 4 storing customer profile information corresponding to a plurality of on-line shoppers; storing customer web log information corresponding to the plurality of on-line shoppers; 6 storing promotion attributes corresponding to a plurality of sales promotions that have been offered: inputting the customer profile information, the web log information and the promotion attributes corresponding to the plurality of sales promotions into a model for simulating, by a 10 computer, shopping behavior as a function of the customer profile information and the promotion 11 attributes corresponding to the plurality of sales promotions; and 12 offering promotions based on the model. 2.-3. (Canceled) 4 (Original) The method of Claim 1, wherein the model comprises a logistic regression model. 5. (Canceled) 6 (Previously Presented) The method of Claim 4, wherein the model is based on traditional logistical regression theory and on the maximum utility theory.

information includes one or more of age, sex, religion, income, ethnicity, marital status,

geographical location, number of children, interests, hobbies, spending habits, and zip code.

(Currently Amended) The method of Claim 1, wherein the customer profile

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8. (Currently Amended) The method of Claim 1, wherein the customer web log information includes one or more of contains data regarding when a customer accessed a web site, how long the customer visited the web site, which items were of interest, how the customer heard about the web site, whether the customer saw a promotion, whether the customer was motivated to taking action as a result of the promotion, whether the customer inspected an item, whether the customer put the item back, whether the customer bought the item, and a quantity of items purchased.

- 9. (Currently Amended) The method of Claim 1, wherein the promotion attributes corresponding to the plurality of sales promotions include at least one or more of sales, upgrades, extended warranties, buy-one-get-one free, financing packages, free options, rebates, coupons, donations to charities, and free gifts.
- 1 10. (Currently Amended) A computer-readable medium having stored thereon instructions for predicting whether an on-line shopper will be converted into becoming a purchaser of an item based on sales promotions offered by an on-line vendor, the instructions comprising the steps of:

storing customer profile information corresponding to a plurality of on-line shoppers;
storing customer web log information corresponding to the plurality of on-line shoppers;
storing <del>promotion</del> attributes corresponding to a plurality of sales promotions that have
been offered;

inputting the customer profile information, the web log information and the promotion attributes corresponding to the plurality of sales promotions into a model for simulating shopping behavior as a function of the customer profile information and the promotion attributes corresponding to the plurality of sales promotions; and

13 offering promotions based on the model.

11.-12. (Canceled)

- (Original) The computer-readable medium of Claim 10, wherein the model comprises a logistic regression model.
- (Canceled)

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- (Previously Presented) The computer-readable medium of Claim 13, wherein the model is based on traditional logistical regression theory and on the maximum utility theory.
- 16. (Currently Amended) The computer-readable medium of Claim 10, wherein the customer profile information includes one or more of age, sex, religion, income, ethnicity, marital status, geographical location, number of children, interests, hobbies, spending habits, and zip code.
- 17. (Currently Amended) The computer-readable medium of Claim 10, wherein the customer web log information includes one or more of eontains data regarding when a customer accessed a web site, how long the customer visited the web site, which items were of interest, how the customer heard about the web site, whether the customer saw a promotion, whether the customer was motivated to taking action as a result of the promotion, whether the customer inspected an item, whether the customer put the item back, whether the customer bought the item, and a quantity of items purchased.
- 1 18. (Currently Amended) The computer-readable medium of Claim 10, wherein the
  2 promotion attributes corresponding to the plurality of sales promotions include at-least one or
  3 more of sales, upgrades, extended warranties, buy-one-get-one free, financing packages, free
  4 options, rebates, coupons, donations to charities, and free gifts.
  - (Currently Amended) [[A]]The method of according to Claim 1, further comprising a step of using the model to tailor sales promotions to individual shoppers.

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- (Currently Amended) [[A]]The method of according to Claim 19, wherein sales
  promotions automatically are customized to a shopper based on customer profile information for
  said shopper.
- 21. (Currently Amended) [[A]]The method\_of according to Claim 1, further comprising steps of storing product information corresponding to a plurality of products offered for sale by the on-line vendor and inputting the product information into the model, and wherein the shopping behavior also is simulated as a function of the product information.
- (Currently Amended) [[A]]The method of according to Claim 1, further
  comprising a step of using the model to compute a percentage likelihood that a shopper will be
  converted into becoming a purchaser.
- 1 23. (Currently Amended) [[A]]The method of according to Claim 1, further
  2 comprising a step of using the model to simulate a conversion of a shopper into a purchaser.
  - 24. (Currently Amended) [[A]]The method of according to Claim 1, further comprising steps of using a simulator based on the model, varying promotion attributes corresponding to the plurality of sales promotions input into the simulator, and then observing results generated by the simulator.
- 1 25. (Currently Amended) [[A]]The method of according to Claim 1, further
  2 comprising a step of continuously updating and improving the model based on new information.
- 1 26. (Currently Amended) [[A]]The method of according to Claim 1, further
  2 comprising a step of using an optimization engine to generate statistically driven sales promotion
  3 plans that have been optimized with respect to at least one objective function.
- 1 27. (Previously Presented) The computer-readable medium of Claim 10, wherein the instructions further comprise a step of using the model to tailor sales promotions to individual shoppers.

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- 28. (Previously Presented) The computer-readable medium of Claim 27, wherein sales promotions automatically are customized to a shopper based on customer profile information for said shopper.
- 29. (Previously Presented) The computer-readable medium of Claim 10, wherein the instructions further comprise steps of storing product information corresponding to a plurality of products offered for sale by the on-line vendor and inputting the product information into the model, and wherein the shopping behavior also is simulated as a function of the product information.
- 30. (Previously Presented) The computer-readable medium of Claim 10, wherein the instructions further comprise a step of using the model to compute a percentage likelihood that a shopper will be converted into becoming a purchaser.
- (Previously Presented) The computer-readable medium of Claim 10, wherein the instructions further comprise a step of using the model to simulate a conversion of a shopper into a purchaser.
- 32. (Currently Amended) The computer-readable medium of Claim 10, wherein the instructions further comprise steps of using a simulator based on the model, varying premotion attributes corresponding to the plurality of sales promotions input into the simulator, and then observing results generated by the simulator.
- 33. (Previously Presented) The computer-readable medium of Claim 10, wherein the instructions further comprise a step of continuously updating and improving the model based on new information.

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- 34. (Previously Presented) The computer-readable medium of Claim 10, wherein the instructions further comprise a step of using an optimization engine to generate statistically driven sales promotion plans that have been optimized with respect to at least one objective function.
- 1 35. (Currently Amended) A method for predicting what types of on-line shoppers will make purchases based on offered sales promotions, comprising:

obtaining profile information for a plurality of shoppers:

obtaining a set of <del>promotion</del>-attributes pertaining to sales promotions that were offcred to the shoppers;

obtaining behavioral information regarding on-line shopping behaviors of the shoppers;

based on the behavioral information, using, by a computer, a mathematical model to relate the promotion-attributes pertaining to the sales promotions to the profile information in order to estimate effectiveness of a particular sales promotion with respect to at least one specified shopper; and

offering promotions based on the mathematical model.

- (Canceled)
- 1 37. (Currently Amended) [[A]]The method of according to Claim 35, further
  2 comprising a step of using the mathematical model to tailor sales promotions to individual
  3 shoppers.
- 1 38. (Currently Amended) [[A]]The method of according to Claim 37, wherein sales
  2 promotions automatically are customized to a shopper based on customer profile information for
  3 said shopper.
- 1 39. (Currently Amended) [[A]]The method of according to Claim 35. further
  2 comprising steps of using a simulator based on the mathematical model, varying promotion
  3 attributes pertaining to the sales promotions input into the simulator, and then observing results
  4 generated by the simulator.

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- 1 40 (Currently Amended) [[A]]The method of according to Claim 35, further 2 comprising a step of continuously updating and improving the mathematical model based on new 3 information.
  - 41 (Currently Amended) [[A]]The method of according to Claim 35, further comprising a step of using an optimization engine to generate statistically driven promotion plans that have been optimized with respect to at least one objective function.
- 42. (Currently Amended) [[A]]The method of according to Claim 35, wherein the promotion attributes pertaining to the sales promotions include at least one or more of sales. upgrades, extended warranties, buy-one-get-one free. financing packages, free options, rebates. 4 coupons, donations to charities, free gifts, discount rate, free shipping and handling, rebate and special event promotional discount.